



## User Instruction & Installation Manual

### L300 Remote Control Explorer Tungsten Halogen Searchlight



#### Product Reference Number:

- A2528 – L300RC Explorer H.V
- A2527 – L300RC Explorer L.V
- A2609 – L300RC RF Explorer H.V
- A2607 – L300RC RF Explorer L.V

#### *Manufacturers details:*

Francis Searchlights Ltd  
Union Road, Bolton  
**Lancashire, BL2 2HJ, UK**  
Tel: +44 (0) 1204 558960  
Fax: +44 (0) 1204 558979  
<http://www.francis.co.uk>  
E-mail: [sales@francis.co.uk](mailto:sales@francis.co.uk)

#### *Distributor details:*



Manual Part Number: C23295

Issue : 4

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# 1 - Introduction

**It is imperative that this manual is read carefully and understood before installing your equipment. For your future reference please keep this manual in a safe place.**

Thank you for specifying a product from the Francis Searchlights range. All Francis products are designed to give complete customer satisfaction and are manufactured to the highest engineering standards in order to ensure optimum performance and service life.

The Francis LITE range combines features proven over many years service in the most hazardous conditions in both marine and land installations.

In order to prolong the life and performance of your product, we recommend that you only specify Francis Searchlights spare parts. This will also ensure that any warranties on your equipment will not be invalidated. Information on spares ordering and parts is provided in this manual.

Should you ever need to contact Francis Searchlights Ltd. regarding your equipment, please quote the Product Serial Number at all times.

## 2 - Safety Precautions

The following instructions must be adhered to, in order to ensure a safe working environment and the safety of the user.

**Note: When unpacking or manoeuvring the searchlight into its fixing position, suitable lifting points must be used in order to prevent damage to the equipment or personal injury.**

- Prevent rain, snow, condensation and water droplets from contacting the lamp as this may cause bulb failure and possible shattering;
- Quartz halogen bulbs run with a high internal pressure in excess of atmospheric. Whilst the construction is inherently strong, there is a slight risk of the bulb shattering;
- Never look directly into an illuminated searchlight as this may cause severe damage to eyesight. If it is necessary to inspect a lamp whilst in operation, always wear suitable protective goggles;
- Should it be necessary to examine the lamp with the front bezel removed, always use a protective shield and wear goggles to ensure a safe working environment;
- Never attempt to clean a lamp whilst in use;
- Searchlights get hot. Never touch the unit when lit and always allow 15 to 20 minutes for cooling down after turning the searchlight off;
- Never place anything on or cover the searchlight when in use;
- Ensure the lamp has cooled sufficiently before removal;
- If undue force appears necessary to remove the lamp, the equipment should be inspected by a competent person or contact the manufacturer;
- When breaking a lamp for disposal, care must be taken to ensure the glass fragments are safely contained. This operation must be performed out of doors in free air. In all circumstances refer to the lamp manufacturers instructions packed with the lamp;
- Due to the vast range of lamps available it may appear possible that more powerful lamps can be used in the equipment than for which it was designed. Even when the unit will physically accept a higher wattage or voltage lamp, this substitution is not recommended and is dangerous. This action will also void any warranties on the equipment.

**Always refer to the lamp manufacturers technical data when dealing with lamps.**

### 3 - Technical Information

This product has been designed to operate in accordance with the product specification. The L300RC searchlight has the following features:

- Constructed from 304 stainless steel;
- Parabolic formed aluminium reflector;
- Powder coated finish;
- 365° horizontal rotation;
- Vertical movement +25° to -25°;
- Motor speed 20°/sec (Pan), 5°/sec (Tilt);
- Self regulating internal heater.(Optional);
- Toughened front glass;

The 115/240v searchlight also performs to the following optical data:

	<u>1000 Watt T/H</u>	<u>1000 Watt T/H</u>
■ Supply voltage	115v	240v
■ Peak Beam Candlepower	891,000 lux	831,000 lux
■ Range	941 metres	941 metres
■ Divergence	5°	5°
■ Operational temperature with heater	-50°C (-20° without)	

The 24v searchlight also performs to the following optical data:

	<u>150 Watt T/H</u>	<u>250 Watt T/H</u>
■ Supply voltage	24v	24v
■ Peak Beam Candlepower	832,000 lux	899,000 lux
■ Range	912 metres	948 metres
■ Divergence	2°	3°
■ Operational temperature with heater	-50°C (-20° without)	-50°C (-20° without)

In order that the searchlight operates correctly it is imperative that competent personnel are responsible for the installation, operation and servicing of this equipment. Failure to adhere to this advice may cause premature failure or incorrect operation of the searchlight, which may damage the equipment or cause personal injury.

## 4 - Unpacking and Installation Instructions

The following instructions should be read and fully understood prior to installing the equipment to ensure that the correct procedures are followed and all safety precautions are observed.

**Note: If the equipment has been in storage for a considerable amount of time, it is advisable to conduct a routine maintenance check on all parts before installation.**

### Safety Precautions

This equipment should not be connected to an electrical supply before being installed. Installation procedures should be adhered to in order to ensure a safe working environment and reduce the risk of damage or personal injury.

### Preparing the Mounting Position

Mark out and drill the fixing holes through the deck. If anti-vibration mounts are to be fitted, the fixing holes for the mounts should also be marked out and drilled. Prior to manoeuvring the searchlight into its' fixing position, the AV mounts should be fitted to the base. When in the desired position, bolt the searchlight firmly down. On an uneven surface it may be necessary to use a suitable sealant such as silicone, in order to ensure a weatherproofed joint.

## 5 - Electrical Installation

For safety purposes, only competent personnel should perform the electrical installation. All equipment should be installed to current Electrical Regulations and Standards.

In order to obtain the maximum light output from the searchlight, it is essential that the full operating voltage of the lamp fitted be applied to the lampholder contacts.

### Method of Electrical Connection

- 1) Disconnect the supply before working on the electrical system;
- 2) The searchlight must be connected to a fused electrical supply, using suitably sized cable;
- 3) If the searchlight is located a considerable distance from the supply, provision must be made in the cable size in order to overcome the voltage drop. The following table should be used for indication purposes only:

Searchlight	24v 150w	24v 250w	115v 1000w	230v 1000w	230v 650w
Cable Size (mm <sup>2</sup> )	Distance Max	Distance Max	Distance Max	Distance Max	Distance Max
1.5	5 MTRS	3 MTRS	17 MTRS	68 MTRS	105 MTRS
2.5	8 MTRS	5 MTRS	28 MTRS	111 MTRS	171 MTRS
4	13 MTRS	8 MTRS	44 MTRS	176 MTRS	271 MTRS
6	20 MTRS	12 MTRS	69 MTRS	275 MTRS	422 MTRS
10	34 MTRS	20 MTRS	115 MTRS	460 MTRS	707 MTRS

- 4) Whenever possible cable terminations should be made below deck and with approved terminal devices;
- 5) If a spare auxiliary fuse or circuit breaker is not available, one of the correct type and rating should be fitted and connected to a positive supply. It is advisable to locate a bus bar or main connection and avoid any direct connection to the supply;

## Installation Guidelines

**A typical installation and connection routine for the L300RC 115/240v searchlight is as follows:**

Referring to wiring diagram C23285, a supply is fed to the control panel, which then provides a common feed to the motor gearbox and the searchlight.

The searchlight has been pre-wired with 3 meters of cable from the gearbox to junction box provided.

Cables required to be connected by the customer: -

4 core 1.5mm cable from the junction box to the Control Panel.

12 core 0.5mm cable from the junction box to the Control Panel.

The Mains cable to the Control Panel to be supplied by the customer. The searchlight head is pre-wired along with the connecting cable to the motor gearbox.

**A typical installation and connection routine for the L300RC 24v searchlight is as follows:**

Referring to wiring diagram C23279, a supply is fed to the control panel, which then provides a common feed to the motor gearbox and the searchlight.

The searchlight has been pre-wired with 3 meters of cable from the gearbox to junction box provided.

Cables required to be connected by the customer: -

4 core 1.5mm cable from the junction box to the Control Panel.

12 core 0.5mm cable from the junction box to the Control Panel.

The Mains cable to the Control Panel to be supplied by the customer. The searchlight head is pre-wired along with the connecting cable to the motor gearbox.

**A typical installation and connection routine for the L300RC RF 115/240v searchlight is as follows:**

Referring to wiring diagram C23293, a supply is fed to the control panel, which then provides a common feed to the motor gearbox and the searchlight.

The searchlight has been pre-wired with 3 meters of cable from the gearbox to junction box provided.

Cables required to be connected by the customer: -

4 core 1.5mm cable from the junction box to the Control Panel.

12 core 0.5mm cable from the junction box to the Control Panel.

The Mains cable to the Control Panel to be supplied by the customer. The searchlight head is pre-wired along with the connecting cable to the motor gearbox.

**A typical installation and connection routine for the L300RC RF 24v searchlight is as follows:**

Referring to wiring diagram C23291, a supply is fed to the control panel, which then provides a common feed to the motor gearbox and the searchlight.

The searchlight has been pre-wired with 3 meters of cable from the gearbox to junction box provided.

Cables required to be connected by the customer: -

4 core 1.5mm cable from the junction box to the Control Panel.

12 core 0.5mm cable from the junction box to the Control Panel.

The Mains cable to the Control Panel to be supplied by the customer. The searchlight head is pre-wired along with the connecting cable to the motor gearbox.

**A typical installation and connection routine for the L300RC RF with Slave Joystick Panels is as follows:**

Referring to wiring diagram C24754, a supply is fed to the junction box PCB, which then provides a common feed to the motor gearbox, searchlight and control panels.

The searchlight has been pre-wired with 3 metres of cable from the gearbox to junction box provided.

Cables required to be connected by the customer: -

12 core 0.5mm cable from the junction box to the control panels.

The mains cable to the junction box to be supplied by customer. The searchlight head is pre-wired along with the connecting cable to the motor gearbox.

## 6 - Operating Instructions

This equipment is designed for use out of doors, in free air. Never place anything on, or cover the searchlight when in use as this may present a hazard.

The searchlight can be remotely positioned via the joystick control panel, with the facility for movement up, down, left and right. When in the desired position the joystick should be released so that it returns to its' home position, dead centre.

### L300RC

The beam of the searchlight can be internally adjusted to give a variety of spreads. Using the focussing handle situated underneath the barrel head. The lampholder can be moved into the desired position, towards the front for spot or the rear for flood.

### L300RC RF

The beam of the searchlight can be adjusted to give a variety of beam types. Using the yellow remote focus button on the joystick panel, the desired beam can be achieved for any particular application. The beam will move continuously through 'spot' to 'flood'. In order to fix the beam type; simply release the button at the desired position.

The heaters specified on this equipment are self-regulating, so will adjust the heat accordingly.

**This product should not be used for any purpose other than for which it was designed. Any modifications to the product should not be undertaken without consulting the manufacturer.**

### Setting to Work

Safe service in use necessitates the strict observance of the following precautions.

- Any article fabricated from quartz or glass is inherently fragile and care should therefore be taken, at all times, when handling lamps;
- Eye protection must be worn when handling lamps that have been removed from their packaging materials. The protective jacket should not be removed from the lamp for safety reasons, as there is a remote possibility of the lamp shattering violently, especially if it is subjected to mechanical shock or vibration;
- Always isolate the equipment from the supply before inserting a lamp;
- Before inserting the lamp ensure that all contacts are clean. Contacts must be renewed at the slightest sign of corrosion. Sanding or filing down corroded areas is not recommended as this will only make the conducting surface between the pin and lampholder smaller, thus causing the lamp to overheat;
- Do not twist or bend the fused quartz bulb when fitting the lamp as mechanical stresses MUST be avoided;
- The lamp must be capable of unimpeded expansion when it warms up to operating temperature. Mechanical forces must not be applied to the fused quartz bulb;
- Before the protective jacket is removed, suitable protection must be worn i.e face mask and gloves with wrist protection;

- Never touch the quartz bulb with bare hands, as fingerprints will make the glass cloudy and cause a severe loss of light. This may also cause recrystallisation and thus weaken the bulb material. Should the bulb be inadvertently touched, remove fingerprints with methylated spirit and a clean, soft paper towel. The bulb should then be wiped with distilled water. NOTE: ALWAYS WEAR MASK AND GLOVES DURING CLEANING);

**In all circumstances the lamp manufacturers data should be referred to when dealing with lamps.**

*When fitting the lamp:*

- Always isolate the equipment from the supply when inserting a lamp;
- Ensure the circuit is suitably fused;
- Ensure the lamp is of the correct power rating and type;
- Check lampholder is in good condition. If the contacts show any sign of corrosion, replace the lampholder;
- Check the lampholder is in a good dry condition. Never allow water to collect in the lamp fitting or come into contact with the lamp.

*To fit the lamp:*

- Remove the front bezel assembly by operating the safety catch and lifting the catch body ;
- For easier access the light shield/spill ring may be removed by undoing the fasteners;
- Cut open one end of the protective sleeve surrounding the lamp;
- Using the sleeve to prevent the fingers coming into contact with the lamp, position the two pins above the holes in the lampholder;
- Gently push the lamp into the lampholder and remove the protective sleeve;
- Replace the light shield/spill ring and front bezel assembly, ensuring the safety catch is engaged.

## Testing

Upon correct installation and connection to an electrical supply, the equipment can be tested in order to ensure its' correct performance. A competent person with some knowledge of electrical equipment must carry out this work.

Equipment required:    Multi-meter with leads  
                                  Ammeter

Using the equation  $P=VI$ , the approximate power output of the equipment can be calculated in the following way:

- Using the multi-meter, take a voltage reading;
- Using the ammeter, take an amps reading from the live cable to the lamp;
- Multiply these figures together to give an approximate wattage (Power output).

For example:

Using a 24v 150w Tungsten halogen lamp:

Voltage reading = 24v; Amps reading = 6 amps

Therefore, Wattage =  $24 \times 6 = 144$  watts

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## 7- Fault Finding

All fault finding must be conducted by a competent person or qualified Electrical Engineer.

### Failure of Lamp to light

#### *Causes:*

- 1) Power not supplied;
- 2) Fuse blown;
- 3) Failed lamp

#### *Remedy:*

- 1) Check voltage at supply. If supply is not present the fault is at the customer supply. If power is present, see remedy 2;
- 2) Check fuse for visual failure. If none noticeable check fuse for continuity using a multi-meter. If fuse found to be faulty, replace with new part and test equipment again for correct working order. If found to be working correctly see remedy 3;
- 3) Firstly, check supply at lampholder connecting block (within searchlight barrel). If supply is present, disconnect unit from power supply before removing the lamp. If noticeable damage to filament is present, the lamp will have failed. The lamp can also be checked for continuity using a multi-meter. Replace lamp ensuring all precautions and instructions previously outlined in this manual are adhered to.

## 8 - Maintenance and Servicing

In order to prolong the service life and performance of your searchlight, the following maintenance guidelines are recommended:

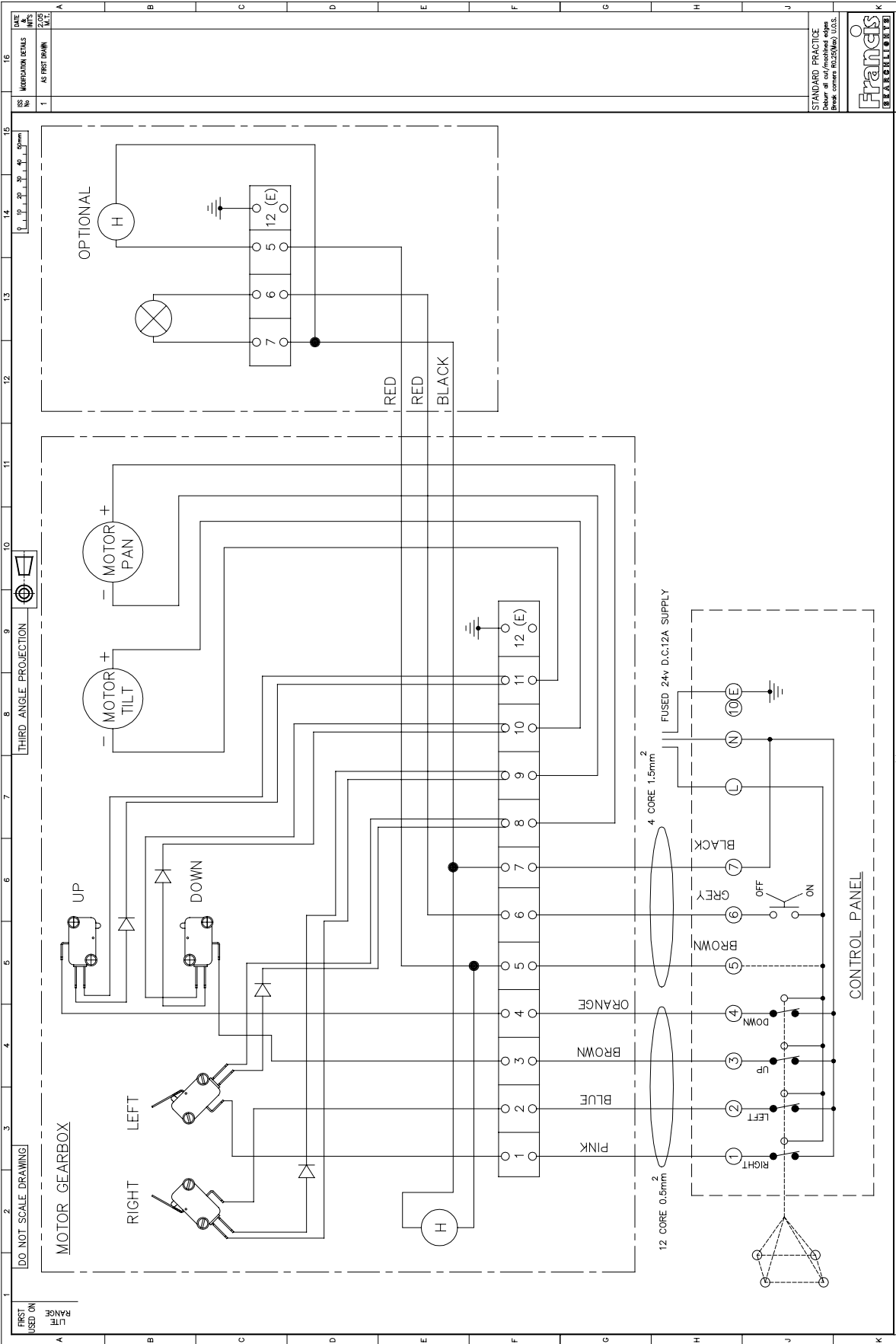
- Maintenance checks should be conducted before every voyage or at least every three months;
- Before checking, disconnect the equipment from the supply;
- Visually inspect the condition of the equipment;
- Any major or minor structural damage should be rectified immediately in order to reduce sympathetic wear;
- After inspection it may be necessary to clean the inside of the searchlight. The following procedure should be adhered to:
  - Remove the front bezel;
  - Clean the front glass inside and out using a proprietary glass cleaner or metal polish;
  - Clean the reflector if required;
  - Ensure that the lampholder is free from corrosion or other damage;
- It is advisable to check all seals and gaskets for signs of degradation. Renew if necessary;
- The searchlight is fitted with a breather unit. This ensures a steady airflow in order to prevent any vacuum forming within the barrel.
- Upon completing all maintenance requirements the searchlight should be tested for full working order (approximately 20 minutes).

**If in any doubt as to the correct servicing procedures to adopt please contact your distributor/agent or the manufacturer who will be able to advise the best course of action for your product.**

## 9 - Wiring Diagram & General Assembly

Drawing Number	Description
<b>L300RC</b>	
C23285	H.V Explorer RC Wiring Diagram
C23279	L.V Explorer RC Wiring Diagram
A2528/A2527	L300RC Explorer H.V & L.V G.A.
C22821	High/Low Voltage Control Panel
<b>L300RC RF</b>	
C23293	H.V Explorer RC Wiring Diagram
C23291	L.V Explorer RC Wiring Diagram
C24754	H.V. & L.V. RC Wiring Diagram with Slaves
A2609/A2607	L300RC RF Explorer H.V & L.V G.A.
C22848	Control Panel H.V
C22431	Control Panel L.V
C23603	Junction Box Assembly





DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

DATE: 15/03/2005  
 DRAWN BY: J. J. J.  
 CHECKED BY: J. J. J.  
 AS FIRST DRAWN

STANDARD PRACTICE  
 Detail all cut/machined edges  
 Break corners R0.25 (Min) U.O.S.

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Francis SEARCHLIGHTS LIMITED · UNION ROAD · BOLTON · BL2 2HJ

DESCRIPTION: WIRING DIAGRAM LITE RANGE L.V EXPLORER

MATERIAL: FRANKLIN

FINISH: FRANKLIN

Scale: Small Castings: To ISO 8032 C10  
 Die Castings: To ISO 8032 C18  
 Hide centres & points ±

TOLERANCES: General: ±  
 Angles: ±

ALL DIMENSIONS IN MILLIMETRES

PART No./REV No.: C.23279 / 1

SHEET: 1

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

FRANCIS SEARCHLIGHTS LIMITED - UNION ROAD - BOLTON - BL2 2HU

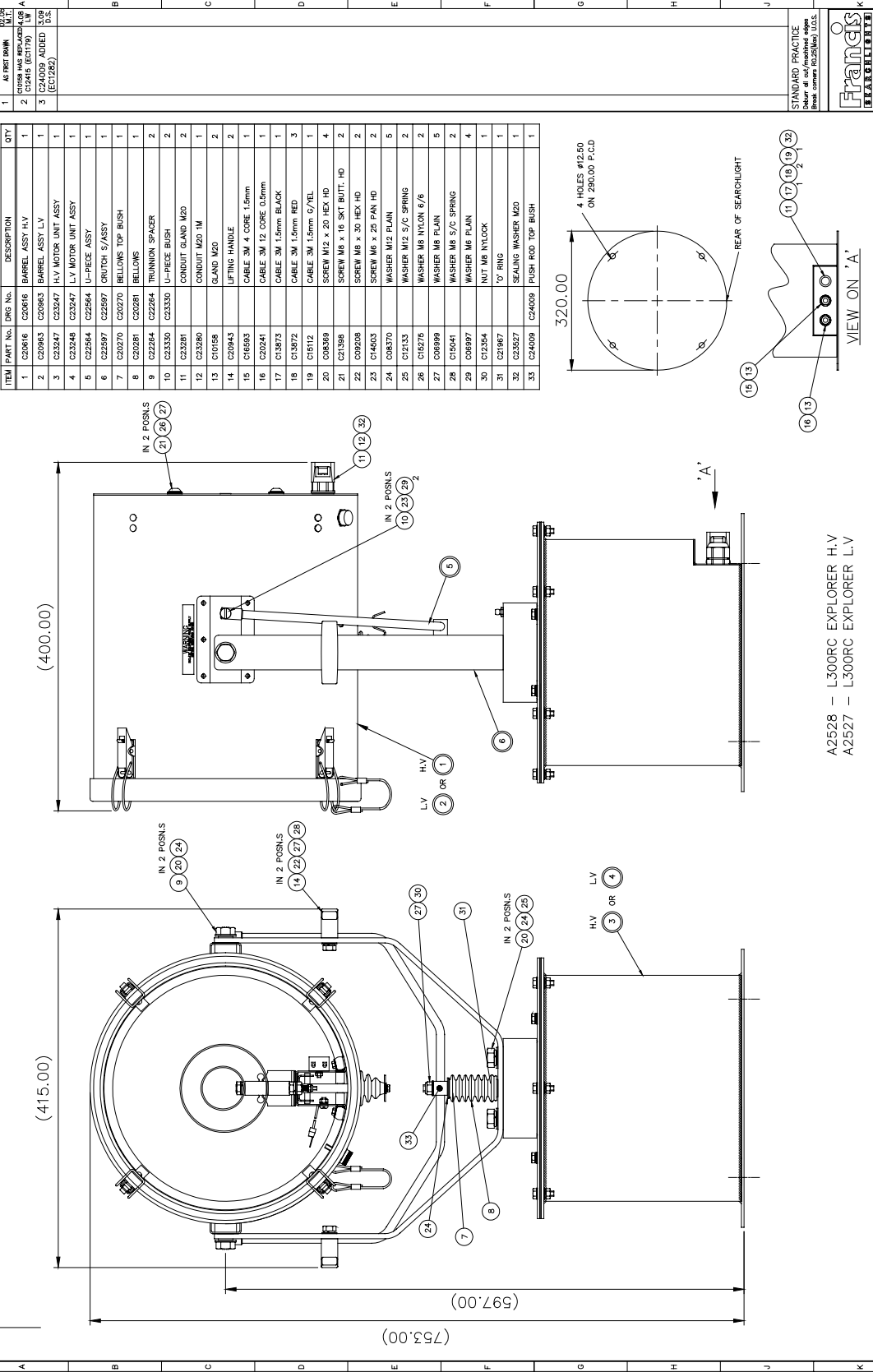
A2528 - L300RC EXPLORER H.V  
A2527 - L300RC EXPLORER L.V

STANDARD PRACTICE  
Francis Searchlights Ltd.  
Breck Green, R6250 (Map) U.K.S.

Francis  
SEARCHLIGHTS

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PART No. (REV. 30)

A2528



ITEM	PART No.	DRG No.	DESCRIPTION	QTY.
1	C20616		BARREL ASSY H.V	1
2	C20616		BARREL ASSY L.V	1
3	C23247		H.V MOTOR UNIT ASSY	1
4	C23248		L.V MOTOR UNIT ASSY	1
5	C22564		U-PIECE ASSY	1
6	C22567		CRUTCH S/ASSY	1
7	C20270		BELLOWS TOP BUSH	1
8	C20261		BELLOWS	1
9	C22264		TRUNNION SPACER	2
10	C23330		U-PIECE BUSH	2
11	C23261		CONDUIT GLAND M20	1
12	C23260		CONDUIT M20 1M	2
13	C10158		GLAND M20	2
14	C20943		LIFTING HANDLE	2
15	C16593		CABLE 3M 4 CORE 1.5mm	1
16	C20241		CABLE 3M 12 CORE 0.5mm	1
17	C13873		CABLE 3M 1.5mm BLACK	1
18	C13872		CABLE 3M 1.5mm RED	3
19	C15112		SCREW M2 x 20 HEX HD	1
20	C08369		SCREW M2 x 20 SKT BUTT. HD	4
21	C21398		SCREW M8 x 30 HEX HD	2
22	C09208		SCREW M8 x 25 PAN HD	2
23	C14503		WASHER M2 PLAIN	5
24	C08370		WASHER M2 5/8" SPRING	2
25	C12133		WASHER M8 NYLON 6/6	2
26	C19276		WASHER M8 PLAIN	5
27	C09899		WASHER M8 5/8" SPRING	2
28	C10041		WASHER M6 PLAIN	4
29	C08997		NUT M6 NYLON	1
30	C12354		'O' RING	1
31	C21867		SEALING WASHER M20	1
32	C23527		FLUSH ROD TOP BUSH	1
33	C24009			1

MONITORING DETAILS

1. AS FIRST DRAWN

2. CHG. DIMENSIONS FOR U.P.

3. C24009 ADDED FOR D.S. (EC1285)

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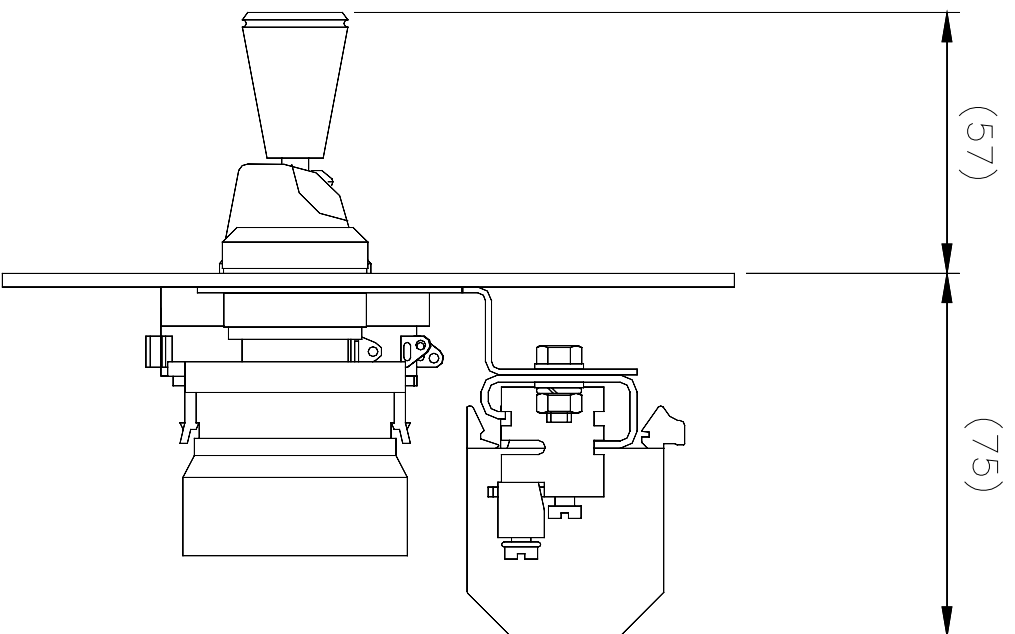
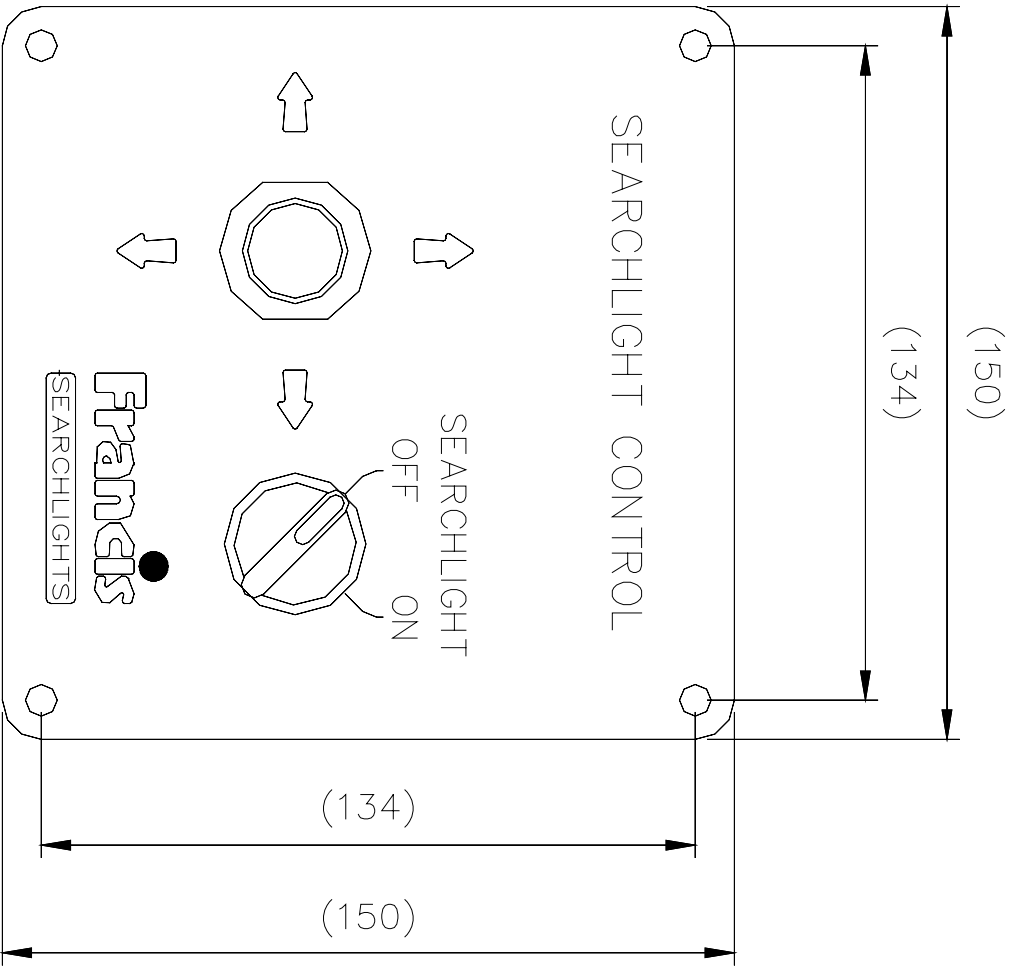
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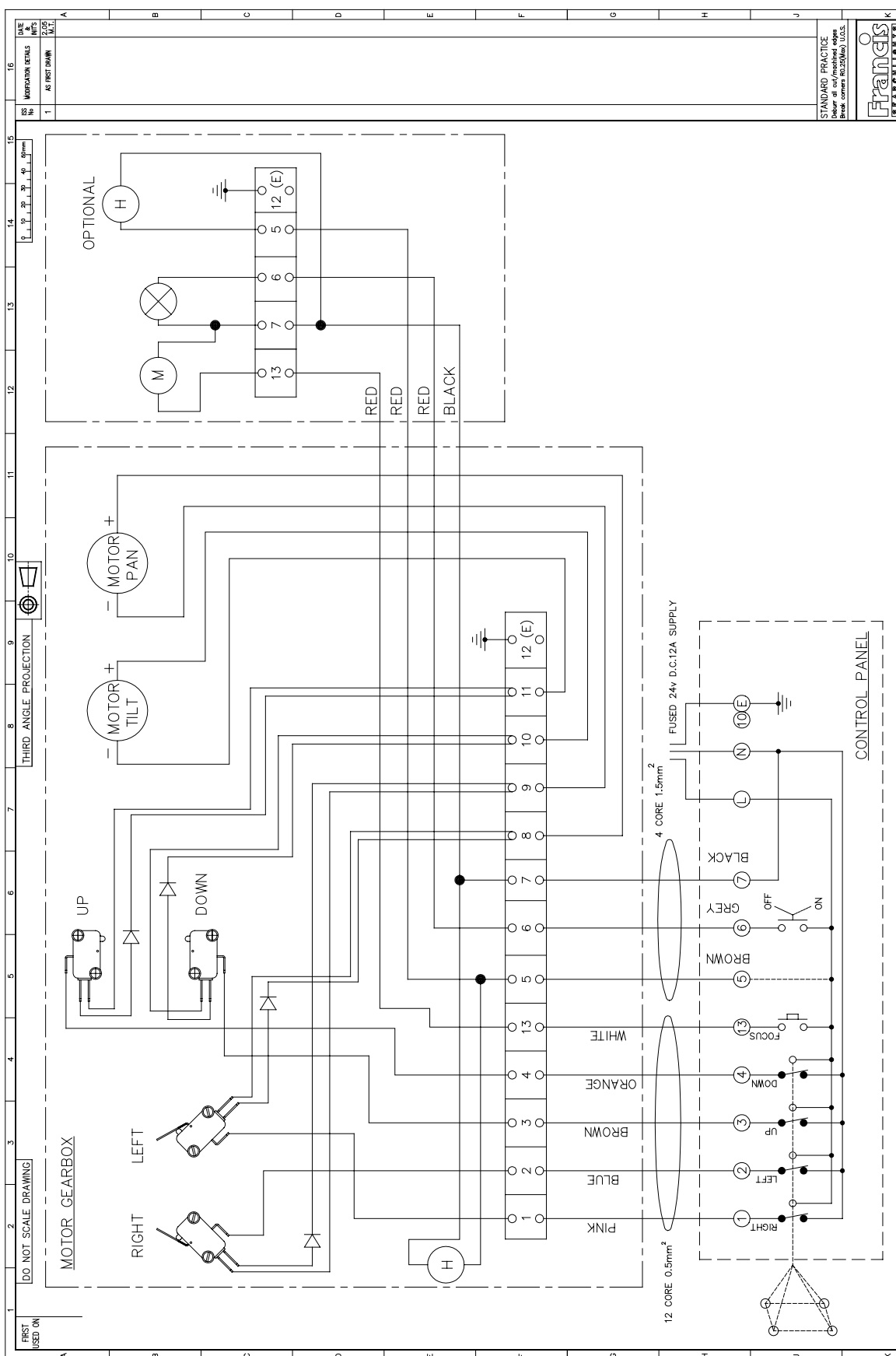
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DATE	16
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DATE	2.05
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DESCRIPTION	
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STANDARD PRACTICE  
 Refer to any/one of the  
 following drawings/files.



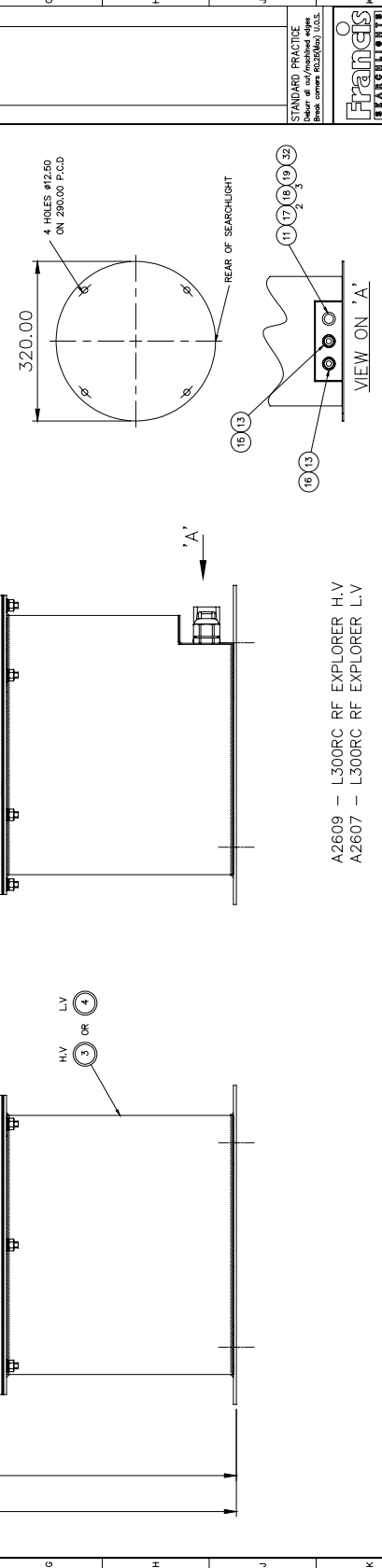
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ALL DIMENSIONS IN MILLIMETRES	Page 1		Page 1		Page 1	
MATERIAL			DESCRIPTION			
FRANCIS SEARCHLIGHTS LIMITED . UNION ROAD . BOLTÓN . BL2 2HJ			WIRING DIAGRAM L.V RF EXPLORER			
PART No./REV No.			C23291			
SHEET			1			

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DO NOT SCALE DRAWING															
THIRD ANGLE PROJECTION															
FIRST USED ON															

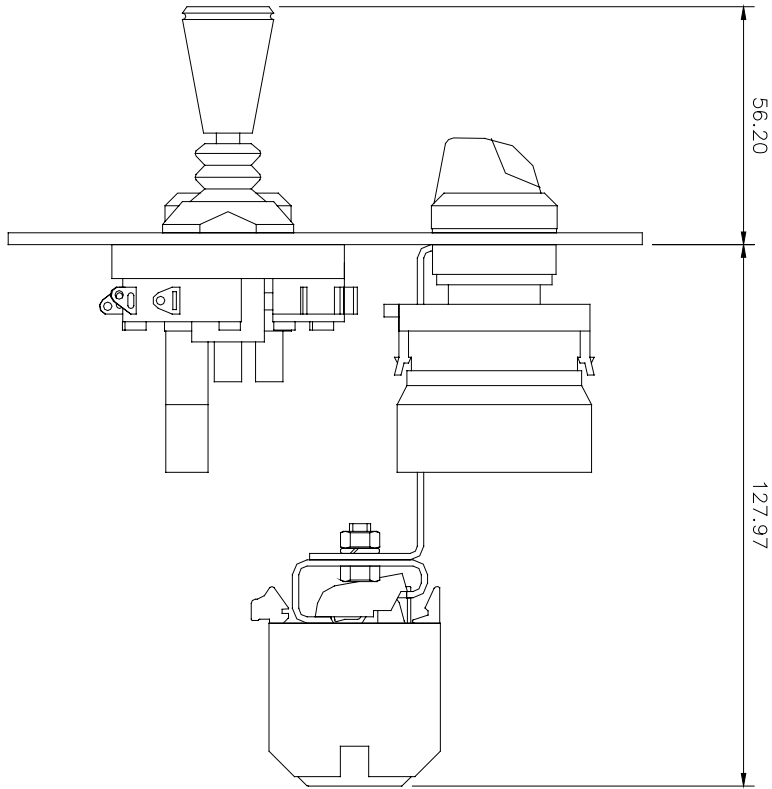
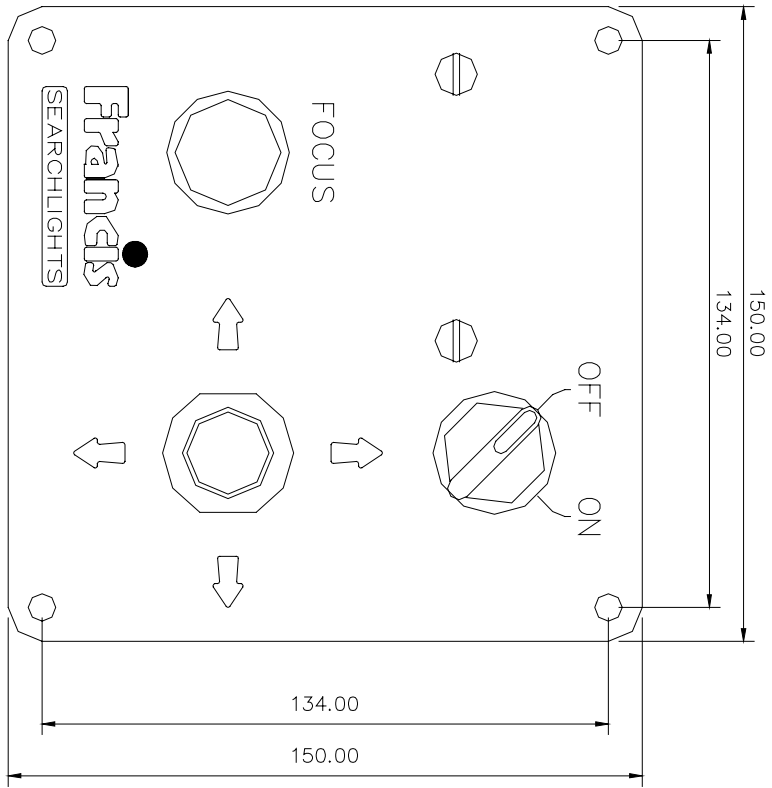
ITEM	PART No.	DRG No.	DESCRIPTION	QTY
1	C22908	C22908	BARREL ASSY H.V	1
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3	C23247	C23247	H.V MOTOR UNIT ASSY	1
4	C23248	C23247	L.V MOTOR UNIT ASSY	1
5	C22964	C22964	U-PIECE ASSY	1
6	C22987	C22987	CRUTCH S/ASSY	1
7	C20270	C20270	BELLOWS TOP BUSH	1
8	C20281	C20281	BELLOWS	1
9	C22884	C22884	TRUNION SPACER	2
10	C23350	C23350	U-PIECE BUSH	2
11	C23280	C23280	CONDUIT GLAND M20	2
12	C23280	C23280	CONDUIT M20 1M	2
13	10158		GLAND M20	1
14	C20943		LIFTING HANDLE	2
15	C16693		CABLE 3M 4 CORE 1.5mm	1
16	C20241		CABLE 3M 12 CORE 0.5mm	1
17	C13873		CABLE 3M 1.5mm BLACK	2
18	C13872		CABLE 3M 1.5mm RED	3
19	C16112		CABLE 3M 1.5mm G/YEL	1
20	C08369		SCREW M12 x 20 HEX HD	4
21	C21398		SCREW M8 x 16 SKT BUTT. HD	2
22	C09208		SCREW M8 x 30 HEX HD	2
23	C14603		SCREW M8 x 25 PAN HD	2
24	C08370		WASHER M12 PLAIN	5
25	C12133		WASHER M12 S/C SPRING	2
26	C16275		WASHER M8 NYLON 6/6	2
27	C08989		WASHER M8 PLAIN	5
28	C16041		WASHER M8 S/C SPRING	4
29	C08987		WASHER M6 PLAIN	1
30	C12354		NUT M8 NYLOCK	1
31	C21987		1" RING	1
32	C23627		SEALING WASHER M20	1
33	C24009	C24009	PUSH ROD TOP BUSH	1

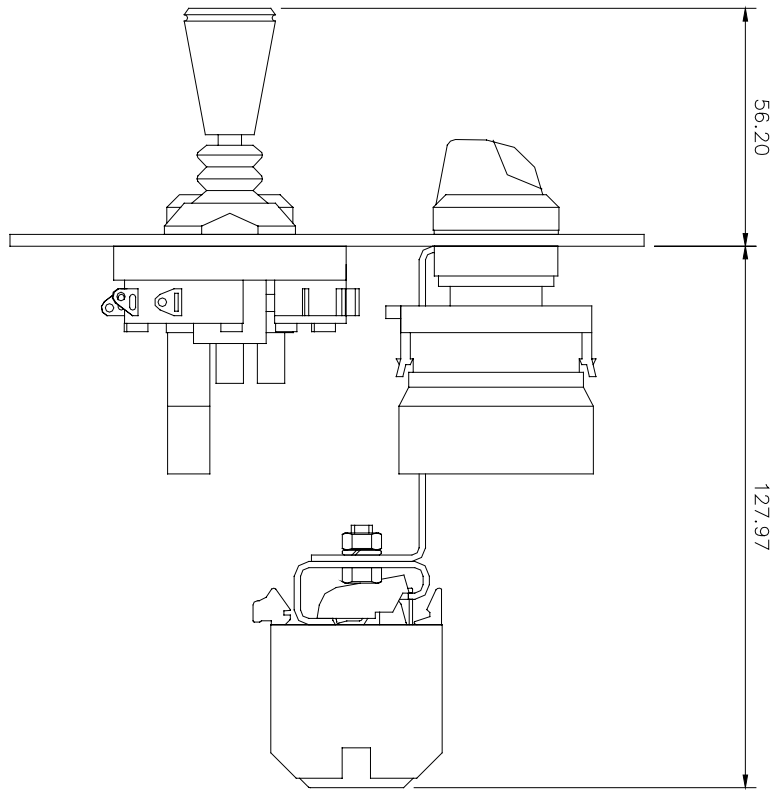
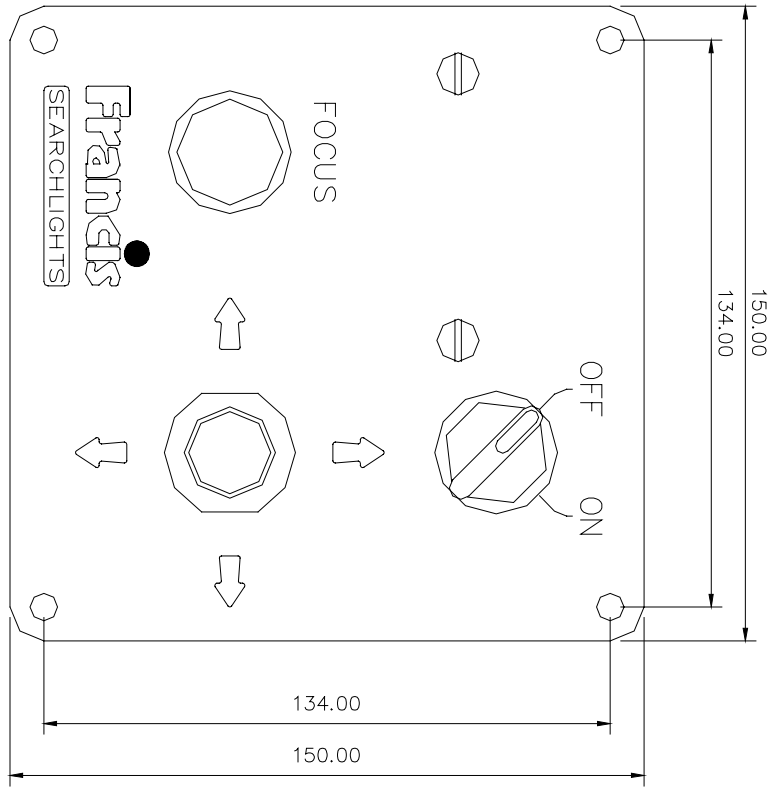


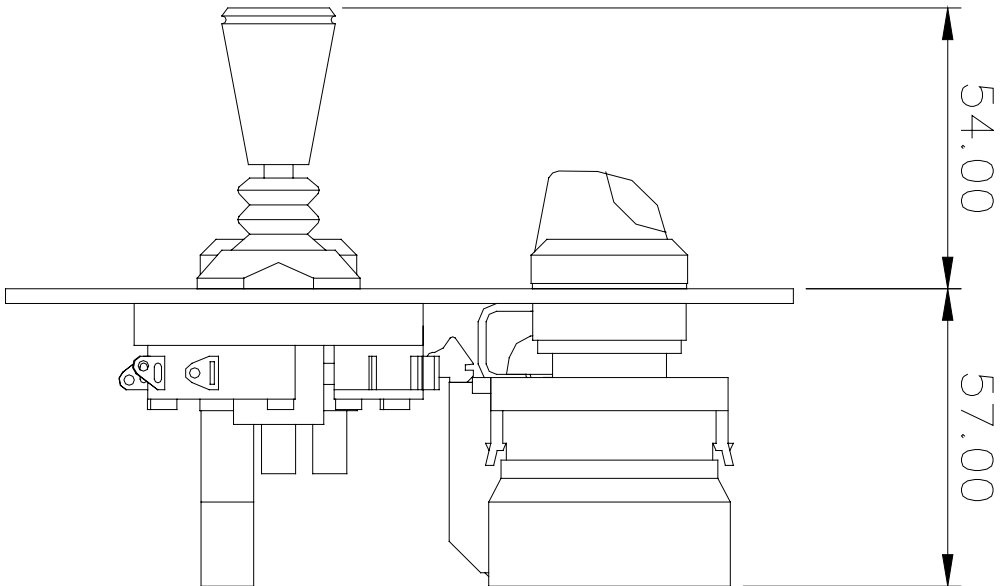
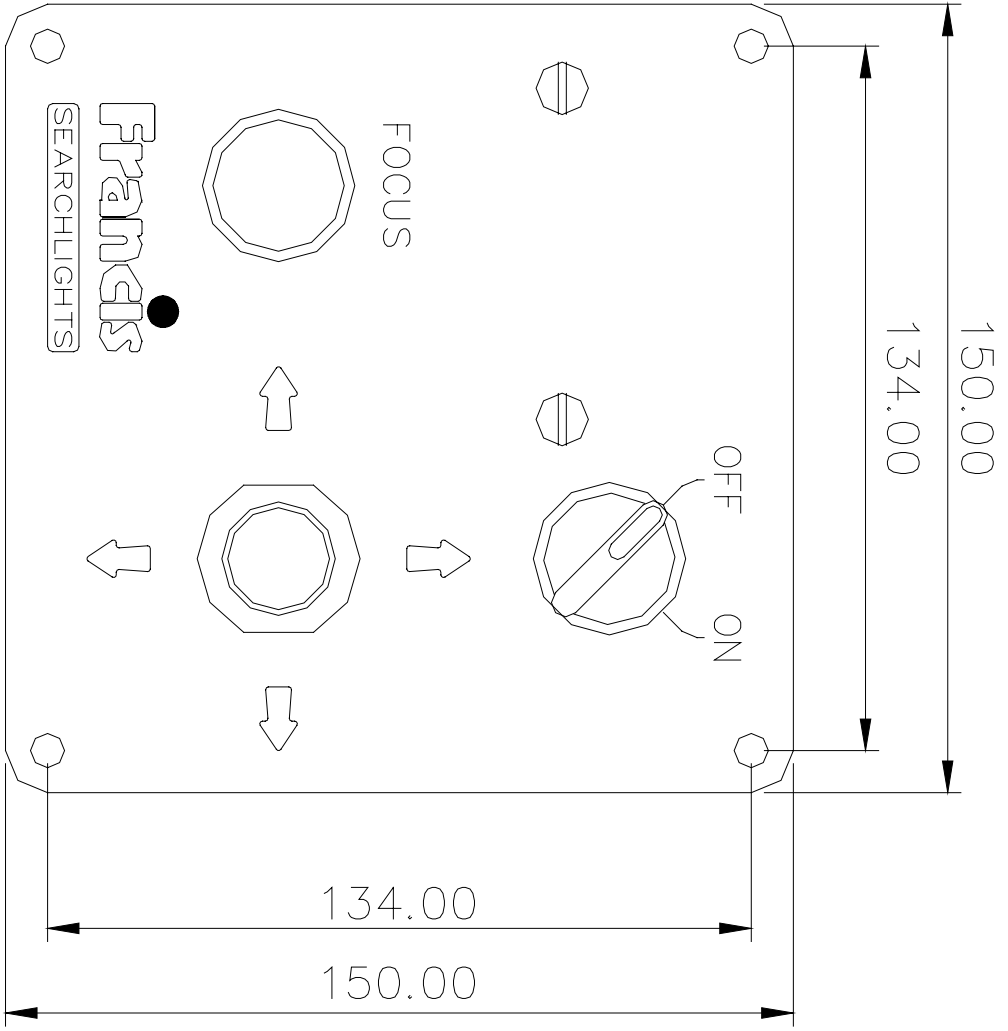
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CHECKED	SCALE	1:1	2	3	4
ALL DIMENSIONS IN MILLIMETRES					5
MATERIAL					6
FINISH					7
DESCRIPTION					8
FRANCIS SEARCHLIGHTS LIMITED . UNION ROAD . BOLTON . BL2 2HU					9
A2609 - L300RC RF EXPLORER H.V					10
A2607 - L300RC RF EXPLORER L.V					11
© 2006 A1 CONT ON SHEET					12
PART No./DRG No.					13
A2607					14
SHT					15
1					16

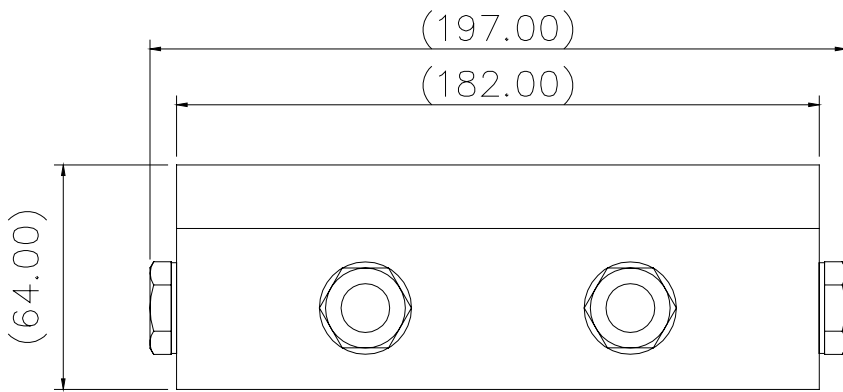
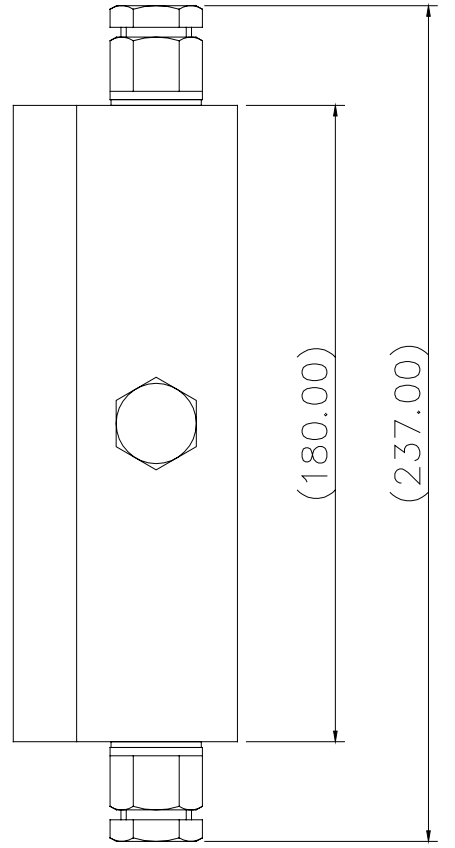
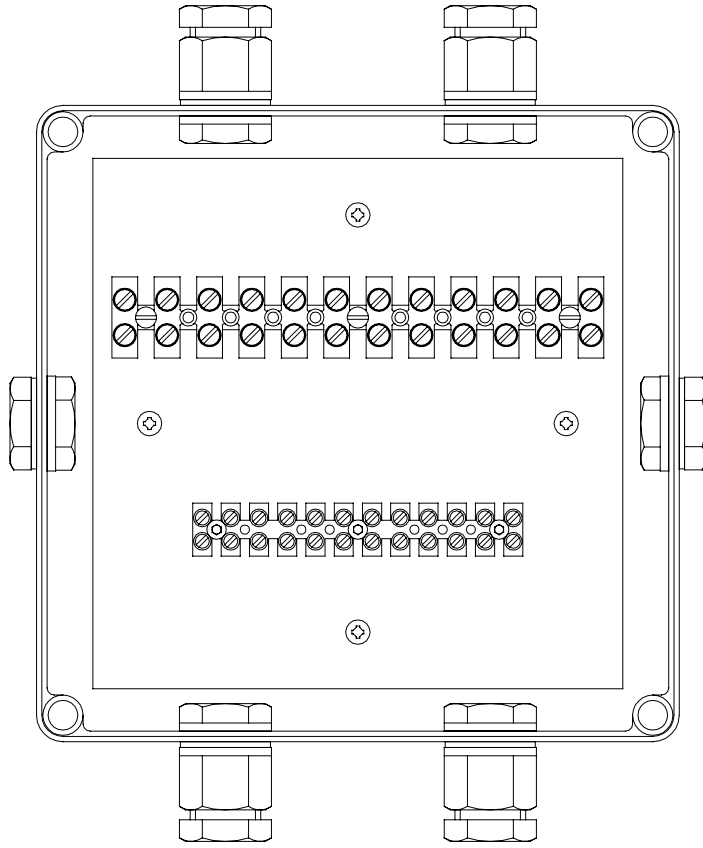
STANDARD PRACTICE  
Detail of cut/machined edges  
Break corners R0.25(Min) U.S.S.

**Francis**  
SEARCHLIGHTS









## 10 - Spare Parts List

The following spare parts can be ordered directly from the manufacturer:

Part Number	Description
Searchlight Spares	
D9851	24v 250w 300HRS GX6.35 Tungsten Halogen Lamp
D14795	24v 150w 300HRS GX6.35 Tungsten Halogen Lamp
D4695	24v 250w 2000HRS GX6.35 Tungsten Halogen Lamp
D1809	115v 1000w 750HRS GX9.5 Tungsten Halogen Lamp
D1813	230v 650w 750HRS GX9.5 Tungsten Halogen Lamp
D6715	230v 1000w 750HRS GX9.5 Tungsten Halogen Lamp
C03022-00	Lampholder GX9.5
C16878-00	Lampholder GX6.35
C14143-00	Switch 10A - On/Off
C14142-00	Switch – Focus
C14444-00	Joystick
C20645-00	Front Glass
C20567-00	Front Glass Gasket
C16410-00	Motor - Remote Focus
C20619-00	Reflector
C22268-01	Breather Assy
C16761-00	A.V. Mount
C20281-00	Bellows

### Motor Gearbox Spares

C23259-01	Pan Motor Assy
C23267-01	Tilt Motor Assy
C22380-00	Microswitch no lever
C22382-00	Microswitch with lever
C23234-00	Pedestal Sealing Gasket
C23530-00	P.S.U

In order to prolong the life and performance of your product, we recommend that you only specify Francis Searchlights spare parts. This will ensure that any warranties on your equipment will not be invalidated.

When ordering spare parts please contact the Sales Department at Francis Searchlights Limited. Please quote searchlight model and serial number at all times. This will enable a fast response to your spares' requirements.

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